

Highlights of the Quarterly Meeting

INTERAGENCY COMMITTEE ON INDOOR AIR QUALITY (CIAQ)

Wednesday, July 24, 2002

Introduction: given by Elissa Feldman, EPA Co-Chair. Members and guests introduced themselves.

HUD - Housing and Urban Development/Lead Update - Ellen Taylor

The deadline for the OHHLHC grant programs' Notice of Funding Availability (NOFA) was June 14. The Lead Hazard Control grant program (\$80 million) received 94 applications; The Healthy Homes Demonstration grant program (\$5.5 million) received 70 applications; and the Healthy Homes and Lead Technical Studies grant program (\$2.5 million) received 25 applications. The announcement of the grant award may be made in October as part of the observance of Lead Poisoning Prevention Week (Oct. 20-26) and Children's Health/Healthy Homes Month (October).

October has been proclaimed Children's Health Month. HUD is collaborating with other Federal Agencies on joint events in Washington and throughout the country, including a White House event scheduled for October 7th. Other events will be scheduled for October 20-26 which is Lead Poisoning Prevention Week. HUD has also named October Healthy Homes Month, and many of the Healthy Homes grantees are planning special events in their communities.

We have recently executed four Interagency Agreements:

(1) The CDC National Center for Environmental Health will be developing a housing-related environmental risk valuation manual that will present a systematic approach to identify health and safety risk factors associated with housing deficiencies and hazards. It also will present information on intervention methods, resources to implement interventions, and an assessment tool for inspections. The manual is to be used by environmental health practitioners, housing specialists, and inspectors, and others, as appropriate. The NCEH will also help OHHLHC develop a Healthy Homes Training Network that includes electronic and local delivery of course material, seminars, and other training programs. The Training Network will address urban, rural, and Native American environmental health- and housing-related issues that impact public health.

(2) The Department of Agriculture (USDA) Forest Products Laboratory in Madison WI, is collaborating on a project "Creating Healthier Homes Through Building Better Homes." Through the FPL Advanced Housing Research Center, the project will establish a coalition of associations, home builders and government agencies with the purpose of creating a network to coordinate and disseminate research results to builders, remodelers, trade contractors, nonprofit housing developers, community organizations and consumers, which will lead to the construction and rehabilitation of healthy and affordable housing.

(3) The United States Department of Agriculture (USDA), Cooperative State Research, Education and Extension Service (CSREES) and OHHLHC have combined forces to work together on issues related to healthy homes. The goal of the Healthy Homes Program is to link the resources of USDA/CSREES and the state land-grant universities with HUD for a public outreach education program that will reduce housing deficiencies and risks associated with childhood diseases and injuries. An expanded version of the "Help Yourself to a Healthy Home" booklet is now available in print or electronically; single copies can be ordered free from the Consumer Information Center. More information on the Partnership, which includes the participation of Extension Service agents in 45 states, is available at <http://www.uwex.edu/healthyhome/>.

(4) The NIST Building and Fire Research Laboratory is continuing with several Healthy Homes projects. Two new CONTAM related projects will address the residential IAQ impact of attached garages and cooking and household products use.

The HUD Office of Healthy Homes and Lead Hazard Control has been reorganized. There is now a Healthy Homes Division, and Ellen Taylor has been appointed Division Director.

GSA - General Services Administration Update - Bryan Stevenson

GSA PBS National Task Group on IAQ.

The Public Building Service (PBS) has recently created an Indoor Air Quality (IAQ) National Task Group whose mission is to increase the understanding of IAQ problems and pro-actively remediate against any future occurrences within GSA owned and leased buildings. Even though this task group is in its preliminary stages, its focus is to develop a National IAQ Training targeted towards GSA Project Managers, Building Managers, and Realty Specialists.

GSA National Indoor Air Quality (IAQ) Training

GSA has contracted the Mid-Atlantic Environmental Hygiene Resource Center (MEHRC) to provide the IAQ training to all interested GSA associates. The targeted audience is project managers, building managers, and realty specialists. There is some discussion on expanding this to engineers and architects. The training will focus on proactive steps towards fixing IAQ problems. Symptoms of IAQ problems, steps toward fixing problems, and ways to prevent problems from occurring will be stressed to all training participants. GSA plans to roll out the training to all the regions in September. The training curriculum is still under review by the regions, though a final copy should be in place within the next couple of weeks. Dave Pennebaker, the upcoming training facilitator, gave an IAQ presentation during the *Building Safe Building Green* Conference last May. During his presentation, he highlighted EPA's software I-BEAM, which will also be used during trainings. For more information on this training, please contact Lee Salviski at (202) 501 0909 or lee.salviski@gsa.gov.

DOE - Department of Energy Update - John Talbott

Association of States Energy Research and Technology Transfer Institute IAQ research agenda

The development of an agenda of high priority energy-related IAQ research by a multi disciplinary team led by LBNL's Indoor Environment Department is proceeding well. The draft agenda includes 10 broad goals, sets of top 22 and top 34 priority research areas, and text outlining the research needs and approach in all 34 areas. An industry/stakeholder advisory committee met to provide review comments on April 11. The agenda is expected to be completed and available via LBNL's Indoor Environment Department web site (<http://eetd.lbl.gov/ied/ied.html>) by the middle of August.

Indoor Health and Productivity Project

As a task of the Indoor Health and Productivity Project co-funded by the Construction and Building Committee and Southern California Edison, papers have been published each month in ASHRAE Journal. In addition, the IEQ Strategies Newsletter devoted an issue primarily to a summary of the series of papers.

ASHRAE Standard 62.2

The third public review of ASHRAE standard 62.2P, *Ventilation and Acceptable Indoor Air Quality in Low-rise Residential Buildings*, closed on May 20, 2002. There were 19 commenters providing a total of 66 comments. This public review contained only Independent Substantive Changes (ISCs), which means that only specific issues were available for comment. Although the entire document is provided for context, the public review is only on the changes indicated in the document. After receiving a substantial numbers of comments, including the requirements for back-draft testing of combustion appliances and specifications for fans used in kitchen ventilation, and because of issues uncovered regarding sound ratings of kitchen fans, it is clear that there is going to be a 4th public review.

INDOOR AIR 2002

The Indoor Air 2002 Conference was held June 30 – July 5 in Monterey, California. There were 1079 registrants for the conference and the proceedings contained 726 papers. Proceedings are available on a searchable CD and in print format. All abstracts of the papers are now available at the conference web site www.indoorair2002.org. The conference program included tracks of sessions on the following topics: ventilation; HVAC hygiene; bio-aerosols; environmental tobacco smoke; particles and dust; volatile organic compounds; pollutant emissions; perceived IAQ; IAQ modeling; air cleaning; asthma; sick building syndrome; and children's health.

With support from the World Bank for participation by scientists in developing countries, there were also sessions on developing country IAQ and health. A number of other subject areas were addressed in single sessions. In addition, the program featured 8 invited plenary presentations, four invited distinguished lectures, and four sessions of uninvited but featured papers. A special session, without papers was devoted to a discussion of the causes of increases in allergies and asthma. Based on our feedback from attendees, the conference was a big success. CIAQ sponsors of the conference were DOE, EPA, CDC/NIOSH, and NIST. The American Industrial Hygiene Association, three California state organizations, two Canadian agencies, one foundation, and 16 companies or trade associations also provided support for the conference. The organizing committee is starting to identify papers for a number of special post conference publications, most likely in the form of special issues of journals.

Homeland Security

DOE's Offices of Energy Efficiency and National Security are participating in a number of programs related to Homeland Security. OHS's Building Air Protection workgroup is one example.

With support from DOE's office of National Security, LBNL building science researchers updated their web site (<http://securebuildings.lbl.gov>) that provides information for first responders and facility managers on reducing building vulnerability to chemical and biological releases and on actions to take during an incident. A document was added to the site that gives detailed analyses and reasoning behind the advice posted at the website. The website receives about 10,000 visitors per month. LBNL completed intensive experiments in Salt Lake City on a chem.-bio hardened building to test its security against CB attacks, and to determine tracer gas spread in its interior for a variety of release scenarios under different building operating condition. This building was earlier used by federal and stage agencies that protected Salt Lake City during the Winter 2002 Olympics.

NIST- National Institute of Standards and Technology Update - Andrew Persily

BASE Ventilation Data: NIST is analysing the ventilation data collected as part of the EPA BASE study of 100 office buildings. NIST is focussing on outdoor air intake rates, supply airflow rates and how building factors affect these rates. The results will be used by others to understand the impacts of ventilation rates on contaminant concentrations, occupant symptoms, etc.

Study of Hybrid Ventilation: With DOE and ARTI funding, NIST is conducting a simulation study to examine the performance of natural and hybrid ventilation systems in US office buildings. Hybrid systems employ a combination of natural ventilation and mechanical equipment to meet ventilation and/or cooling requirements in buildings. NIST is performing airflow simulations to look at issues of ventilation reliability, air distribution, outdoor air quality impacts, and energy.

HUD projects: NIST is continuing a number of projects funded by the Healthy Homes Initiative and the Office of Policy Development and Research. They include:

- Definition of a set of residential buildings that represent the US residential housing stock.
- Modeling of indoor contaminant sources, focusing on moisture, cooking and other activities.

- Development of database of IAQ modelling inputs including source strengths, deposition rates, filter efficiencies.
- Study of airflow & contaminant transport from attached garages in single-family residences.
- Long term study of moisture transport and the ability to predict indoor moisture levels in an occupied townhouse.

IEQ Performance Metrics: Project to investigate development of metrics to quantify indoor environmental conditions, specifically what has been proposed, how they could be used, are we ready yet and what work needs to be done. Examples include concentration levels, parameters that combine concentrations of different contaminants, and more nebulous ideas that address productivity and economics. A workshop on the subject will be held at the ASTM meeting in Norfolk in the afternoon of October 14. NIST is developing an agenda and lining up speakers. If interested in attending, or speaking, let Andy Persily know.

NIST TEST HOUSE: NIST is instrumenting a new double-wide manufactured test house for ventilation and IAQ research on the NIST campus. Airtightness tests have been completed and the collection of ventilation rate and VOC concentration data has begun. These data will be used to conduct studies of mechanical ventilation, air cleaning, VOC emissions from building materials, and residential moisture issues. To show it off, NIST is planning a “house warming” party for early fall; if interested in attending, let Andy Persily know.

EPA - Environmental Protection Agency/IED Update

Consumer Labeling Initiative - Kathy Seikel, (OPPTS)

Begun in March 1996, the CLI is a voluntary, cooperative partnership among federal, state, and local government agencies, industry, and other interested groups working to improve product labels on indoor insecticides, outdoor pesticides, and household hard surface cleaners. Extensive consumer research resulted in a series of changes to make labels easier to read and understand by consumers and in the formation of a consumer education campaign. The campaign, known as Read the Label FIRST! (RTLFI!), has two purposes: to educate consumers about the importance of reading a product’s label before use, and to educate consumers about specific information to be found on the label. Throughout its existence, CLI has used a variety of innovative approaches, as well as leveraging existing educational program, to get its message across to audiences EPA doesn’t often reach. Some of the more recent efforts are:

A grant with the University of the District of Columbia’s Cooperative Extension Service will allow them to use RTLFI!, other EPA materials and the American Lung Association Cockroaches and Asthma video in a new public education program, conducted at local health care clinics, that focuses on the link between pediatric asthma and cockroach allergens. Washington, DC has the highest pediatric asthma rate in the nation so providing information to this audience on ways to reduce asthma triggers - including cockroach infestations - is particularly critical. The UDC outreach campaign was launched this week and will continue through early Fall.

The New Mexico Family, Career and Community Leaders of America and the New Mexico Association of Family and Consumer Sciences have been using RTLFI! information and, with a new grant, will be developing ready-to-use, age-appropriate, “teacher friendly” learning plans and suggested classroom projects incorporating CLI and RTLFI! information. These materials will be piloted in Family and Consumer Sciences classes in middle and secondary schools in the Fall 2002 school season. Once the pilot program has been completed, the grantee has plans to distribute the curriculum and lesson plans on a nation wide basis so it can be used in the classroom to educate future home owners about the importance of storing, using and disposing of pesticides and other household chemicals as directed by label instructions.

Using a two year grant, the National Safety Council’s Environmental Health Center has become part of the RTLFI! campaign. NSC plans to: 1) conduct outreach and promote proper use of pesticides through its own

chapters, members, web sites, and publications, as well as with youth and community-based organizations; 2) design an assessment tool to gauge what types of outreach tools affect consumers' awareness/attitudes toward reading and following label information; and 3) engage health insurance companies and retailers in the RTLFL! campaign.

CLI will be one of the public information and partnership projects featured at the World Summit on Global Climate Change being held this summer in Johannesburg, South Africa.

The American Society for the Prevention of Cruelty to Animals' Animal Poison Control Center kicked off its Summer 2002 program with a press release containing the RTLFL! logo. They regularly distribute RTLFL! information through their magazine and to veterinary offices.

WJMK, a TV production company, is following up on an earlier shorter piece they did on the CLI for Public TV. They are currently filming a feature length version for Public TV. The shorter version is available as a streaming video on the web.

EPA's Urban Initiative, which focuses on communicating pesticide safety information to high-risk audiences in urban, low-income, and ethnically diverse communities across the nation also uses RTLFL! information in some of their outreach efforts. Among the latest: In August 2002, EPA begins a month-long campaign in the Washington, DC metropolitan area, using space donated by the Washington Area Transit Authority, to display the "use pesticides safely/RTLFL!" messages on 550 Metrobuses and in 10 Metrorail stations.

Indoor Environments Activities - Bob Axelrad, (IED)

Public Review of IAQ Design Tools for Schools -- New draft web-based guidance for school districts, facility planners, architects and engineers intended to assist them in designing high performance schools that incorporate good indoor air quality features is posted on the WWW for a 30 day public review. The draft guidance is available at <http://www.epa.gov/iaq/schooldesign/start.html>. The final site is expected to be posted on the web in the fall.

Internal Review of New Cross Media Healthy School Environments Web Portal-- IED is leading the development of an Agency-wide web portal site to assist the public in accessing all of EPA's school environmental health web resources, as well as resources available from other Federal agencies, states, and NGO's. The portal is now undergoing internal review by OCEMR and the RTP web deployment staff. The portal is being developed with funding from OCHP and in close collaboration with all EPA programs. It is expected to be "live" at the end of August.

President's Kids Task Force Schools Workgroup-- IED is the lead co-chair (other co-chairs are the Department of Education and CDC's Division of Adolescent and School) of a workgroup established by the President's Task Force on Environmental Health Risks and Safety Risks to Children (co-chaired by Governors Whitman and Thompson). The workgroup held its second meeting in late June and is in the process of developing an inventory of all Federal school environmental health programs and beginning development of a strategy for improving the Federal government's efforts to assist schools in addressing environmental issues in the context of their primary mission of educating children.

The Indoor Environments Division (IED) has revised and printed A Citizen's Guide to Radon(402-K-02-006, Fourth Edition, Revised May 2002), one of EPA's key consumer radon publications. The Citizen's Guide is also available in Spanish as El Radon (402-K-93-005, September 1993). For Latino home buyers and sellers, EPA has produced the first Spanish edition, Guia del Radon para el Comprador y Vendedor de Viviendas (402-K-02-001, Julio de 2002), of the popular Home Buyer's and Seller's Guide to Radon (402-K-00-008, July 2000). Latinos are an important and increasing part of the first time home buying and selling market. For more on

these publications, visit www.epa.gov/iaq/radon/pubs/index.html. Also, IED recently posted National Radon Results: 1985-1999 to the website. The report outlines more than a decade of progress on the radon issue.

CIAQ Website - Phil Jalbert, (IED)

The draft of the CIAQ website is up at www.epa.gov/iaq/ciaq/index.html. Phil thanked all those members that had submitted comments and suggestions for the new site. Members held a brief discussion about the what the appropriate level of detail might be for individual agency information, points of contact and other links. Also, discussed was the fate of the Federal Activities Report (on IAQ) that is currently only available in printed form. There was a general consensus that making information now in the report available on each members website with links from the CIAQ website would serve the purpose and facilitate members updating their IAQ related information, creating a virtual activities report. Ellen Taylor of HUD suggested having a brief introduction appropriate to each agency as a segway to the members IAQ pages via the CIAQ website link. Members were again encouraged to view the CIAQ website and provide comments to Phil Jalbert (jalbert.philip@epa.gov).

NEXT MEETING: Wednesday, October 23rd, 2002 at 501 3rd St. from 1:00 to 3:30pm

PRESENTATION

ASHRAE STANDARD 62:

The update on the revision of Standard 62-2001 was the subject of the presentation at the CIAQ meeting, given by Andy Persily. The ASHRAE 62 committee is meeting again the weekend of September 14-15 in Chicago. For more information, contact Andy Persily at 301 975-6418 or andyp@nist.gov. Also, the 62.2P committee met in June to begin consideration of the 3rd public review comments and to continue work on the companion guideline. The committee made a few small technical changes to the standard that will require a 4th public review. The changes included specific inclusion of microwave-hood combinations for kitchen exhaust and removal of back-drafting test requirement for solid-fuel appliances. For more information, contact Steven Emmerich at 301-975-6459 or steven.emmerich@nist.gov.

CIAQ Attendees: Wednesday, 24 July 2002

First	Last	Agency/Org	Phone	Email
Catherine	Angotti	NASA	202.358.1794	cangotti@hq.nasa.gov
Bob	Axelrad	EPA	202.564.9315	axelrad.bob@epa.gov
David	Bleicher	NPS	202.619.7358	david_p_bleicher@nps.gov
Michael	Broder	TVA	256.386.2475	mfbroder@tva.gov
Greg	Brunner	EPA	202.564.9052	brunner.gregory@epa.gov
Sean	Carter	EPA	202.564.9417	carter.sean@epa.gov
Elissa	Feldman	EPA	202.564.9316	feldman.elissa@epa.gov
Vic	Ferrante	HUD	202.708.6423	vferrante@hud.gov
Gene	Fisher	EPA	202.564.9418	fisher.eugene@epa.gov
Joyce	Graf	CTFA	202.331.1770	grafj@ctfa.org
Phil	Jalbert	EPA/IED	202.564.9431	jalbert.philip@epa.gov
Andy	Persily	NIST	301.975.6418	andyp@nist.gov
David	Price	EPA	202.564.9447	price.david@epa.gov
Michael	Pupjak	Cadmus Group	703.247.6132	mpupjak@cadmusgroup.com
Joel	Segal	HUD	202.708.0614 x4455	jsegal@hud.gov
Kathy	Seikel	EPA	703.308.8272	seikel.kathy@epa.gov
David	Shore	EH & E, Inc.	617.964.8550	dshore@eheinc.com
Monica	Spann	EPA	703.305.6459	spann.monica@epa.gov
Bryan	Stevenson	GSA	202.501.6115	bryan.stevenson@gsa.gov
John	Talbott	DOE	202.586.9455	john.talbott@ee.doe.gov
Ellen	Taylor	HUD	202.755.1785 x116	ellen_r._taylor@hud.gov
Treye	Thomas	CPSC	301.504.0994 x1204	tthomas@cpsc.gov
Bob	Thompson	EPA	202.564.9056	thompson.bob@epa.gov
Karen	Trebony	GSA	202.501.1802	karen.trebon@gsa.gov
Susan	Womble	EPA	202.564.9057	womble.susan@epa.gov